6GU7

Medium-Mu Twin Triode

9-PIN MINIATURE TYPE

For Use in the Matrixing Circuits of Color TV Receivers. Also Useful in Phase-Inverter and Multivibrator Circuits, and as a General-Purpose Amplifier Tube.

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC) . . .	6.3[a]	6.3 ± 0.6	volts
Current	0.600 ± 0.040	0.600[b]	ma
Warm-up time (Average).	11	-	sec

Peak heater-cathode voltage (Each unit):

Heater negative with respect to cathode.	200 max.	volts
Heater positive with respect to cathode.	200[c] max.	volts

Direct Interelectrode Capacitances (Approx.):[d]

	Unit No.1	*Unit No.2*	
Grid to plate	3.0	3.0	pf
Grid to cathode and heater.	3.4	3.6	pf
Plate to cathode and heater	0.44	0.34	pf
Plate of unit No.1 to plate of unit No.2.	1.0	1.0	pf

Characteristics, Class A_1 Amplifier (Each unit):

Plate Voltage	250	volts
Grid Voltage.	-10.5	volts
Amplification Factor.	17	
Plate Resistance (Approx.).	5500	ohms
Transconductance.	3100	μmhos
Plate Current	11.5	ma
Plate Current for grid volts = -14.	4	ma
Grid Voltage (Approx.) for plate μa = 50. . .	-23	volts

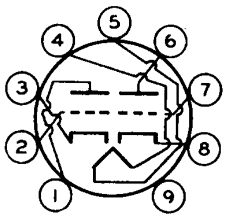
Mechanical:

Operating Position. .Any
Type of Cathodes. . . . . .Coated Unipotential
Maximum Overall Length. . . . . 2-5/8"
Maximum Seated Length . . . . 2-3/8"
Length, Base Seat to Bulb Top (Excluding tip) . . 2" ± 3/32"
Diameter. . . . . 0.750" to 0.875"
Dimensional Outline . . . . .See *General Section*
Bulb. T6-1/2
Base. . . . . Small-Button Noval 9-Pin (JEDEC No.E9-1)

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Basing Designation for BOTTOM VIEW. 9LP

Pin 1 - Plate of Triode No.2
Pin 2 - Grid of Triode No.2
Pin 3 - Cathode of Triode No.2
Pin 4 - Heater
Pin 5 - Heater



Pin 6 - Plate of Triode No.1
Pin 7 - Grid of Triode No.1
Pin 8 - Cathode of Triode No.1
Pin 9 - No Internal Connection

AMPLIFIER — Class A_1

Values are for Each Unit

Maximum Ratings, *Design-Maximum Values:*

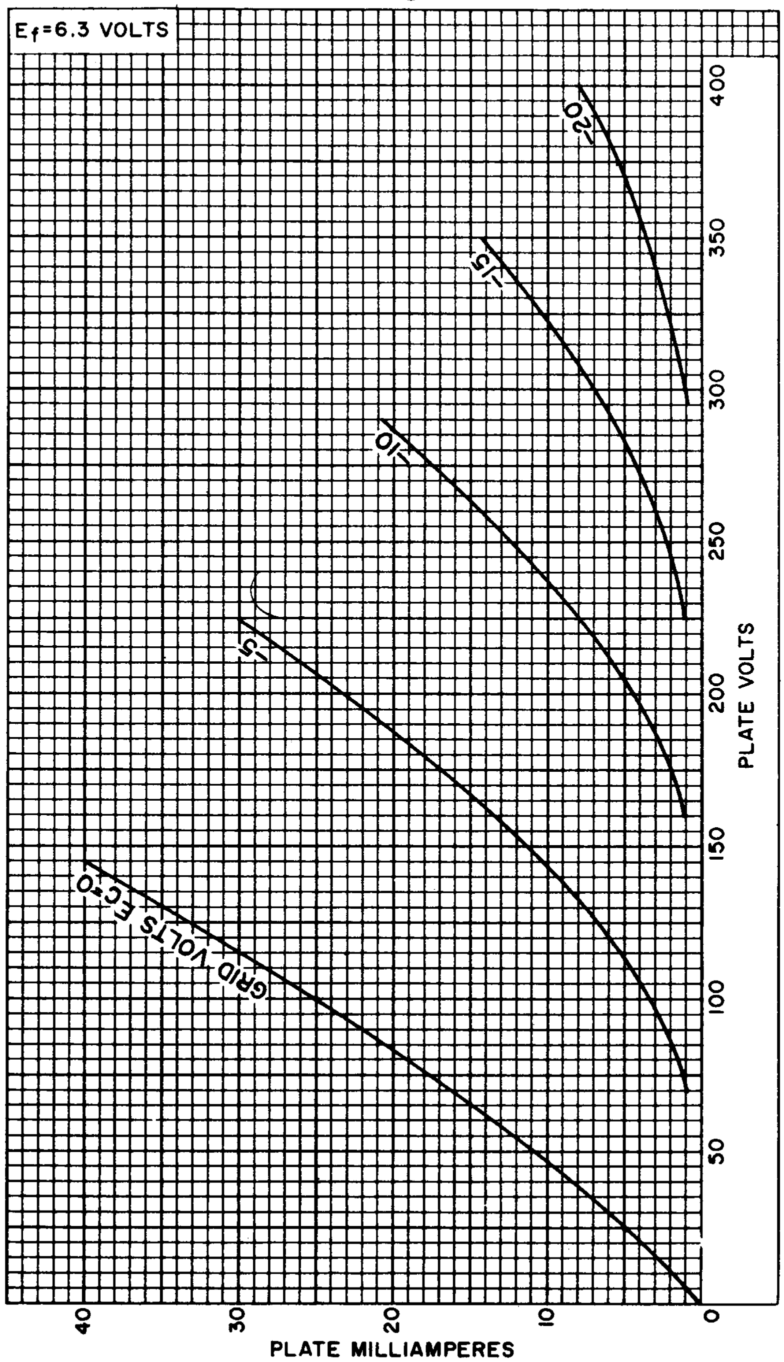
PLATE VOLTAGE.	330 max.	volts
GRID VOLTAGE:		
Positive-bias value.	0 max.	volts
PLATE DISSIPATION.	3 max.	watts

Maximum Circuit Values:

Grid-Circuit Resistance:		
For fixed-bias operation	1 max.	megohm

[a] At heater amperes = 0.600.
[b] At heater volts = 6.3.
[c] The dc component must not exceed 100 volts.
[d] Without external shield.

AVERAGE PLATE CHARACTERISTICS
Each Unit



92CM—11966